

Job Risk Analysis																		
Name(s) of Risk Team Members: P. Cirnigliaro, M. Sivertz				Point Value → Parameter ↓		1		2		3		4		5				
Job Title: NSRL Experiment Job Number or Job Identifier: JRA 11-06				Frequency (B)		≤once/year		≤once/month		≤once/week		≤once/shift		>once/shift				
Job Description: Physics Experimental Work at NSRL, testing detectors.				Severity (C)		First Aid Only		Medical Treatment		Lost Time		Partial Disability		Death or Permanent Disability				
Training and Procedures List (optional):				Likelihood (D)		Extremely Unlikely		Unlikely		Possible		Probable		Multiple				
Approved by: E. Lessard Date: 5-19-06 Rev. #: 0																		
Stressors (if applicable, please list all):				Reason for Revision (if applicable): Date added.						Comments:								
				Before Additional Controls										After Additional Controls				
Job Step / Task	Hazard	Control(s)	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Control(s) Added to Reduce Risk	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	% Risk Reduction		
Transport by vehicle samples to and from NSRL	Highway accident	Training and compliance with BNL’s traffic safety rules.	Y	1	2	3	3	18										
Remove samples from transport vehicle.	Falls on same level	Proper footwear, housekeeping.	N	1	2	3	3	18										
Detector check-out and operation	Shock hazard from high voltage	SHV connectors on all HV cabling. Training, work planning, experimental review, electrical equipment NRTL approved.	N	2	5	1	1	10										
Detector calibration using sealed source	Exposure from radioactive source	Use collimated sources of minimal activity. Keep exposure time to a minimum, ALARA. Work planning, training, experimental review.	N	2	4	1	1	8										
Experiment Installation	Exposure to radiation in target cave.	Minimize time in cave, wait for activity to drop before entering, ALARA. Work planning, training, access control, RWP.	N	2	2	1	1	4										
Collimator Installation, heavy tungsten bricks	Being struck by an object, such as a tool falling on a worker from above or flying debris	Proper selection of PPE (gloves, safety glasses, safety shoes), work planning, barriers.	N	1	2	3	1	6										

Collimator Installation, heavy tungsten bricks	Overexertion – injuries caused by excessive lifting, pushing, pulling, holding, or carrying of an object	Proper selection of PPE (gloves, safety glasses, safety shoes), work planning, barriers.	N	1	2	2	1	4								
Further Description of Controls Added to Reduce Risk:																
*Risk:	0 to 20	21 to 40	41-60			61 to 80			81 or greater							
	Negligible	Acceptable	Moderate			Substantial			Intolerable							